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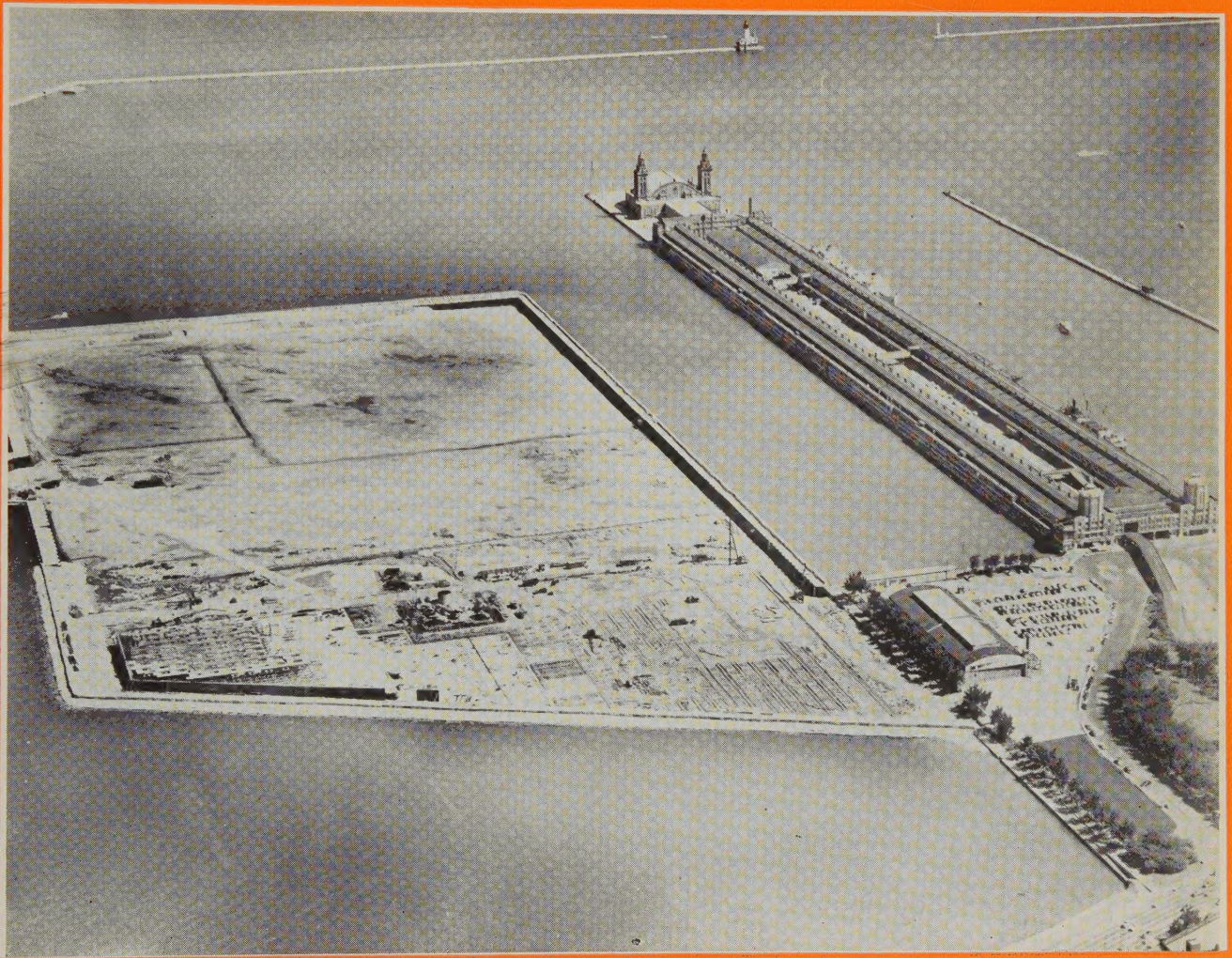
Undergraduate Division

Navy Pier

Chicago 11, Ill.



the **ILLINOIS ENGINEER**



NEW CHICAGO WATER FILTRATION PLANT AND NAVY PIER

Aerial Photo Co.

THE ILLINOIS ENGINEER, FEBRUARY, 1957—VOLUME XXXIII, NO. 2

ILLINOIS SOCIETY OF PROFESSIONAL ENGINEERS, Incorporated

Affiliated with the National Society of Professional Engineers

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ILLINOIS ENGINEER: P. E. ROBERTS, Editor; C. DALE GREFFE and W. J. ROBERTS, Associate Editors.

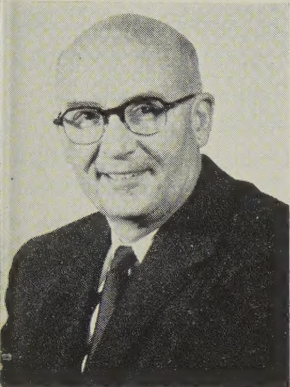
Of Interest to I. S. P. E.

PRESIDENT'S MESSAGE

By ROYCE E. JOHNSON, *President*

Does your Chapter have objectives? It does, but they may mean different things to different members.

Does your Chapter have Public Relations? It does—whether or not its members know it.



President Johnson

Does your Chapter have morale? It does, but doubtless it could stand improvement.

Does membership in your Chapter evoke a feeling of loyalty, pride, good fellowship, professional well-being and responsibility? If not, why not, and why not try to improve the situation?

If you and others in your Chapter are concerned about the problems raised by these questions and if you would move in the direction of improving the answers you can now give, here are eight ways to do so:

1. Devote to a discussion of objectives about ten minutes at each of a number of meetings. Perhaps one or two men could be prepared to lead these short discussions. Numerous short discussions will be more effective and less boring than an occasional long session.

2. Public relations are important to your Chapter, your members and your profession. Fortunately, actions along lines indicated by the above questions will do much to solve public relations and morale problems.

3. Your Chapter, either its individuals or as a group, must do things which merit the appreciation of your friends, acquaintances and the community. There is no durable substitute for performance.

4. Be sure that a reasonable amount of modest publicity is given to the honors and special achievements of individual members. Specific reasons for believing that "engineers do things" are effective in developing good public relations.

5. Publicize meetings, projects, special events and outstanding speakers. Remember that news writers are busy meeting deadlines and have little reason to dig for and organize details of more interest to your group than to the general public. Ascertain the form in which they like news items and write them up so the reporter need do only a minimum amount of work. Plan for photographs sufficiently in advance.

6. Promote a friendly attitude at Chapter meetings. Make visitors and infrequent attenders feel welcome. Get

them to participate in the discussions.

7. Have the officers, directors and committee chairmen brief the members about activities within the Chapter and at the State Board of Direction meetings. In other words, promote good internal public relations.

8. Help your officers and program chairman to provide interesting, worthwhile meetings.

VOX SECRETARII

By P. E. ROBERTS, *Executive Secretary*

Sickness and Accident Insurance Plan

The Board of Direction at its meeting Saturday, January 19, endorsed the sickness and accident insurance plan presented to it by Mr. Seymour Kenis, representative of the Continental Casualty Company. The details of the plan were scrutinized by the members of the Board at length. Questions asked by various members of the Board were answered by Mr. Kenis. A most interesting feature of this plan, which is tailor-made to fit the needs of individual members of the Society, is that only members of the Illinois Society are eligible to purchase this insurance at the attractive low rates offered and the insurance is in force only so long as the engineer keeps his membership in the Illinois Society. Announcement of the plan will come in the form of advertising from Continental Casualty Company and in order that members have the opportunity to acquaint themselves with

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READ THE ADVERTISEMENTS

SUBSCRIPTION RATES

\$2.00 per year in advance to members of the Illinois Society of Professional Engineers. \$4.00 per year in advance to non-members in U.S.A. and its possessions, Canada, and Mexico. Foreign \$6.00. Single copies 40c.

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the details, arrangements have been made for one of the 67 representatives of the company to explain the details in person.

Chapter Officers Conference

The Ninth Annual Chapter Officers Conference was held in Peoria on Saturday, February 2. In spite of extremely bad road conditions, the conference outdrew the attendance last year. Unfortunately, Secretary-Treasurer Spicer was unable to attend on account of a death in his family. President Johnson had just returned from a month course of study at Oak Ridge. Discussion was led by President Johnson, Vice President Neureuther, Executive Secretary Roberts, and Membership Chairman Ken Waltz in absentia.

Engineering Open House

The University of Illinois will hold its annual Engineering Open House on March 15 and 16. The Open House, begun by the Department of Electrical Engineering in 1907, has the unique honor of displaying engineering innovations. In the early 1920's one of the Electrical Engineering exhibits was a sound on film of a man striking a bell. Professional sound movies at the time were synchronized film and phonograph discs. In another part of this issue will be found an announcement of this year's Open House. Many members of the Society throughout the State devote Saturday of the Open House to bringing a carload of high school seniors to visit it.

Dues Notice

Dues collection during the last two months has been slightly above that of 1955-56. The second notice went into the mail the first week of February. Chapter secretaries can be of inestimable assistance by calling this detail to the attention of the members of their chapters. Every check received now will mean just that one less to prepare and send out a third notice.

Membership

Membership totals are rapidly approaching 2,000. President Johnson and your other State officers have been working diligently to make the 2,000 total a reality before the 72nd Annual Meeting. The help of each individual member will help complete the job in the next two months. A membership application blank will be found in another page of this issue. We invite you to tear it out and hand it to a prospective member.

Miscellany

As usual, the University of Illinois basketball team is giving an excellent account of itself. . . . Plans, which will be found elsewhere in this issue, look very interesting for the 72nd Annual Meeting of the Society at the Sherman Hotel. . . . Please note that every space has been filled on the Professional Directory page. If the inquiries which are in the mail come to fruition, a second page will have to be started.

ELECTION RESULTS

The Tellers Committee appointed by President Johnson met in the Executive Secretary's office on January 15 and counted the ballots on the 1957-58 election of officers. Their report shows the following results:

President—A. W. Neureuther
Vice President—Frank W. Edwards
Secretary-Treasurer—A. Douglas Spicer
National Directors—Wayne W. Wallace,
Dwain M. Wallace

There were the usual number of write-in votes. The Tellers Committee consisted of Gordon V. Carlson, Chairman, J. Ray Carroll and Wendel F. Kent.

In line with elections, at the meeting on January 19 the Board of Direction reluctantly accepted K. C. Hoeglund's resignation as Chairman of the Illinois Engineering Council Representatives. Mr. Hoeglund asked to be relieved because of personal and business commitments. The Board elected J. D. Voorhees, a member of the committee for some time, to fill the unexpired term of Mr. Hoeglund, which is to December 31, 1958. Leonard K. Crawford was re-elected to serve until December 31, 1957; John Duba was re-elected to serve until December 31, 1958, and Ellis Danner was elected to serve until December 31, 1959. These staggered terms will permit representatives to the Council from the Illinois Society to accept positions on the Council.

At the annual meeting of the Council last December, John Duba was elected Vice President.

Engineers' Week TV Show

As part of Champaign County Chapter's participation in Engineers' Week, an Engineers' Week program of a seminar type discussion will be aired over WCIA, Channel 3 on Sunday, February 17, from 2:00 to 2:30 p.m. John Bardeen, who is a 1956 Nobel Prize winner and a member of the faculty of the University of Illinois College of Electrical Engineering; Dean of the College of Engineering W. L. Everitt; General A. M. Minton, Commandant of Chanute Field; ISPE Vice President A. W. Neureuther, and L. K. Crawford serve as the five members of the group. W. J. "Jack" Roberts, who is also WCIA's friendly weather man, will act as moderator. If you live within the viewing area of WCIA, Champaign, Channel 3, a look at this group on Sunday, February 17 at 2 o'clock is a perfect way for you to begin Engineers' Week.

I hold every man a debtor to his profession;
from the which as men of course do seek to receive
countenance and profit, so ought they of duty
to endeavor themselves by way of amends
to be a help and ornament thereunto.

Sir Francis Bacon

Program

Illinois Society of Professional Engineers 72nd Annual Meeting

APRIL 11, 12, 13, HOTEL SHERMAN, CHICAGO, ILLINOIS

WEDNESDAY, APRIL 10

7:00 p.m. Registration and Welcome

THURSDAY, APRIL 11

8:00 a.m. Registration and Welcome

8:30 a.m. Meeting of the Board of Direction

8:30 a.m. Opening of Exhibits

9:00 a.m. Registration Law Symposium

“What is the Registration Law and how can it be improved?”
Talk, discussion groups, conclusions of leaders.

12:00 to

2:00 p.m. Luncheon—Presiding, Royce E. Johnson.

Welcome, Invocation, Introductions, Speaker

2:00 p.m. Meeting of the Board of Direction

2:00 p.m. Fees and Salaries Symposium

Review development of Fees and Salaries Schedule as adopted last
Summer. Talk, discussion groups, conclusions of leaders.

5:00 p.m. Adjournment

5:30 to

7:00 p.m. Cocktail Reception

Pay-as-you-go entertainment—available tickets for the best shows
and entertainment tour. (Details in next issue.)

FRIDAY, APRIL 12

8:00 a.m. Registration and Welcome

8:30 a.m. Engineers Functional Group Symposium

Group discussion on:

1. Engineers in Industry
2. Engineers in Private Practice
3. Engineers in Government
4. Engineers in Education

Conclusions of Group leaders

12:00 m. Luncheon—Presiding, Royce E. Johnson

Welcome, Invocation, Introductions, Address

2:00 p.m. 72nd Annual Meeting of the Society

5:00 p.m. Adjournment

5:30 p.m. Sponsored Cocktail Party

6:30 p.m. Banquet—Presiding, Royce E. Johnson

Welcome, Introductions, Awards, Address

SATURDAY, APRIL 13

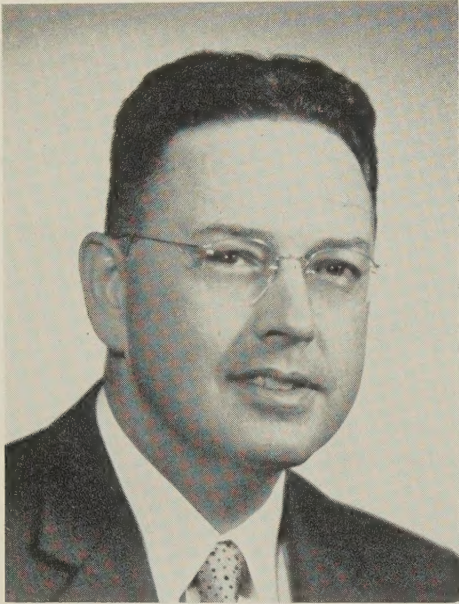
8:30 a.m. Meeting of the new Board of Direction

ILLINOIS SOCIETY OFFICERS FOR 1957-58

The following officers will lead your Society beginning April 13 at the end of the 72nd Annual Meeting and continuing in office until the end of the 73rd Annual Meeting:

PRESIDENT

Andrew W. Neureuther (S '38, N '44) has served for the past year as Vice-President and Comptroller of the Society. Previously he has served as President of the Central Illinois Chapter in 1946, General Chairman of the 65th Annual Meeting of the Society in 1950 and on various other State and Chapter committees. "Andy" was born in Peru, Illinois on December 9, 1909. He began his collegiate career at LaSalle-Peru Junior College.



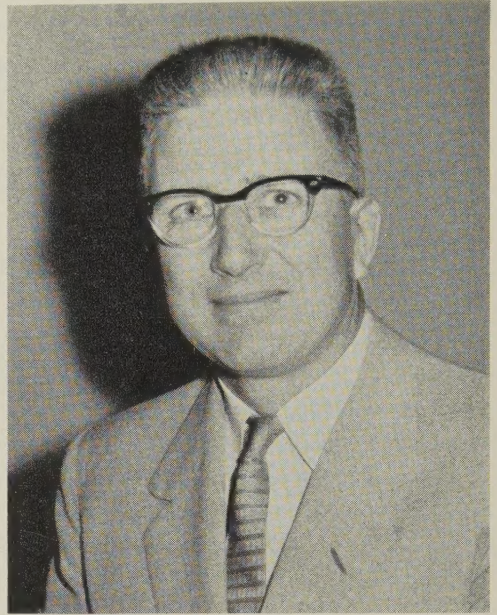
President, A. W. Neureuther

Incidentally, Andy's father was a mechanical engineer and Chief Engineer of Westclox Company, the manufacturers of Big Ben alarm clocks and other time instruments, in LaSalle. After finishing his course at the Junior College, Andy entered the University of Illinois, received a B.S. in mechanical engineering in 1932 and a Master of Science in 1933. He joined the A. E. Staley Co., Decatur, Illinois, after leaving the University of Illinois and at present is its Chief Engineer. Mr. Neureuther has been active in various civic and business groups in Decatur, is the father of four school-age children, and his hobby is boating, both sail and power. His other avocation is a keen interest in his work as a member of the Illinois Professional Engineer Examining Committee.

VICE PRESIDENT

Frank W. Edwards (N '49) has served as chairman of the Illinois Engineering Council Representatives, Vice President of the Chicago Chapter in 1951 and President in 1952, and is presently serving as Chapter Representative from Chicago on the Board of Direction. Mr. Ed-

wards was born in Williamsburg, Iowa on August 10, 1905. He received his B.S. in General Engineering in 1928, his M.S. degree in Hydraulics in 1930, and the pro-



Vice-President, Frank W. Edwards

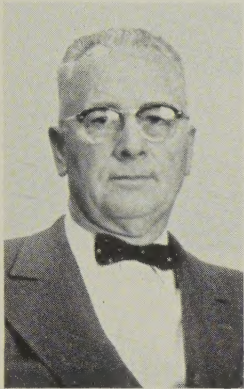
fessional degree of Civil Engineer in 1944 at the University of Iowa. After leaving college he worked on various projects, joining the Illinois Institute of Technology as head of the Department of Civil Engineering in 1948. In 1952 he became General Manager of the Centennial of Engineering, the A. S. C. E.'s recognition of its 100 years of progress. In 1953 he joined Stanley Engineering as manager of its Chicago office, which position he holds today. Mr. Edwards is currently serving on the St. Lawrence Deep Waterway Commission. He is married and lives in Clarendon Hills.



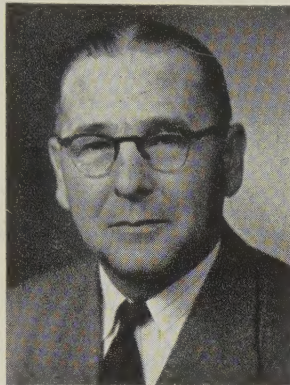
Secretary-Treasurer, A. Douglas Spicer

SECRETARY-TREASURER

A. D. Spicer (S '44, N '46) has been re-elected for the fifth time as Secretary-Treasurer of the Society. Almost from the day of his election he began his work in the Society. In 1946 he was one of the organizers of the West Central (then Kewanee) Chapter, and served as its Secretary-Treasurer from 1946 through 1950. He was Vice President of the Illinois Society in 1951 and President in 1952, becoming Secretary-Treasurer in 1953, so his service on the Board has been continuous for the past six years. He is in charge of development engineering for Kewanee Boiler Company. He has a wife and two Boy Scout age boys.



National Director,
Wayne W. Wallace



National Director,
Dwain M. Wallace

NATIONAL DIRECTOR

Wayne W. Wallace (S '35, N '40) is District Engineer with the Portland Cement Association. During the span of the twenty-two years of his membership, he has served as member and chairman of many important Society committees. He was Vice President of the Illinois Society in 1942 and the 58th President of the Society in 1943. He is well acquainted with Society background, history and government, and continues his service as Illinois' representative to N. S. P. E. with considerable personal knowledge.

NATIONAL DIRECTOR

Dwain M. Wallace (S '39, N '45) begins his service as National Director with a rich background of Illinois Society activity. After serving on various committees and assisting to organize the Peoriarea Chapter, he served two years as a member of the Board of Direction in 1951 and 1952. He was elected Vice President of the Society in 1954 and President in 1955, and is presently serving on the Board as Past President. Mr. Wallace is owner of the Wallace Engineering Company, Peoria, the firm begun before the turn of the century by Jacob A. Harman. Mr. Wallace's home is in Toulon, Illinois and his first love is fishing and his second love dogs. Mrs. Wallace, Carolyn, is as avid a fisherman as Dwain, and also, she was the first President of the Peoriarea Ladies' Auxiliary.

NEWS FROM THE CHAPTERS

Capital Chapter held its Annual Meeting on December 27, at which the slate of officers named by the nominating committee was elected. On January 22 the 1957 officers were installed at a dinner meeting held at the Elks Club. President Collins announced that the Biennial Legislative Dinner will be held on March 19. Also a land surveyors refresher course began in Springfield on February 5.

Central Illinois Chapter held its January meeting at the new plant of Borg Warner. After a meal in the plant cafeteria, the members of the Chapter toured the Marvel-Schebler (Fordomatic) Plant. In a short business session the announcement was made that a refresher course class would be held if the minimum fifteen enrolled. Also, it was announced that a math refresher course class was being offered at Millikin University. Classes started on February 5 and will run through the Spring semester.

DuKane Chapter held its annual meeting and installation of officers at the Elks Club in Aurora on December 18. Fifty-two members, wives and guests enjoyed a steak dinner. Senior Chapter Past President Walter Deuchler installed the new Chapter officers. Vice President Scott announced that George Booth in Elgin and Rob Roy in Aurora had been appointed to take charge of DuKane's Engineers' Week participation.

Joliet Chapter held Executive Committee meetings on January 9 and January 24. The January chapter meeting was held at the Candlelight on January 23. President Brown announced that an Engineers' Week proclamation would be signed by Joliet's Mayor. After a short business meeting, Colonel L. G. Klinker, Deputy Chief, Engineering Branch of the Joliet Ordnance Plant, gave an interesting talk about the engineering work done at the Ordnance command, information on rockets and guided missiles, and the need of the government for additional engineers for this work.

72nd ANNUAL MEETING
HOTEL SHERMAN
APRIL 11, 12, and 13

ESPS SERVICE DISCONTINUED

The Board of Direction discussed at length the continuation of ESPS service at their January meeting. The official action of the Board was to confirm and ratify the recommendations of the Budget Committee in discontinuing the ESPS service indefinitely, beginning immediately.

72nd ANNUAL MEETING
HOTEL SHERMAN
APRIL 11, 12, and 13

NEWS FROM THE CHAPTERS

Lake County Chapter held a regular meeting on November 14 at Hank's Supper Club. This was President Johnson's official visit to the Chapter. Henry Riedesel of Rockford accompanied President Johnson. On December 19 the Chapter held its annual meeting at Al's Polo Lounge in Libertyville, after a tour of the new Lake County Highway Department facilities. Sidney Danoff reported the slate of officers selected by the nominating committee, which was elected by a unanimous ballot.

Rock River Chapter held its annual meeting on January 7. Annual Committee Reports were heard, a report from Chapter Representative Cordes was heard, the Secretary-Treasurer presented his annual statement of income and expenses, the nominating committee presented the slate of officers, which was unanimously elected.

West Central Chapter held its November meeting on the 14th at the Tower in Moline. The Chapter heard a talk by Mr. William Christie of the Employers Liability Insurance Company of Wassau, Wisconsin, who showed a film on the Hoover Commission report. The Chapter held its December meeting in Hotel Kewanee on December 12. The slate of officers presented by the nominating committee was elected. Mr. James Johnson, Director of track and basketball at Wethersfield High School, told of his trip as Ambassador of athletics to Bolivia, South America. He visited several other American cities before returning.

72nd ANNUAL MEETING HOTEL SHERMAN APRIL 11, 12, and 13

C. E. Bronson Retires

Carlos E. Bronson (N '47), West Central Chapter, retired from his position as Vice President of the Kewanee Boiler Division, American Standard Co. Mr. Bronson was Vice President in 1949 and President of West Central Chapter in 1950.

He came to Kewanee from New York in July, 1914 and will continue to be active as a consulting engineer with headquarters in Kewanee. He has been active in the civic societies in Kewanee and is a life member of the American Society of Mechanical Engineers and the American Society of Air Conditioning and Heating Engineers.

A traveling salesman ran out of gas one evening on a lonely road and asked at the only farm house in sight, "Can you put me up for the night?"

"I reckon I can," said the farmer, "if you don't mind sharing a room with my young son."

"Good heavens," gasped the salesman, "I'm in the wrong joke!"—*Kingan Folks.*

PEORIAAREA AUXILIARY

Peoriarea Chapter of the Ladies Auxiliary held a Christmas party in the Vogue Room of the Pere Marquette Hotel on December 15. This was more of a Christmas party than the men who attended realized. During the evening Mrs. Ann Jacobs presented the banner



shown in the picture to President Tom Landes. The balance of the evening was spent in card playing, singing Christmas carols and general conviviality.

72nd ANNUAL MEETING HOTEL SHERMAN APRIL 11, 12, and 13

COVER STORY

The cover has a double significance, inasmuch as it shows both the Navy Pier and the new Chicago water filtration plant which is under construction. Man-made islands and extensions of mainland are old stories in the City of Chicago. Grant Park, much of Lincoln Park, and practically all of the Outer Drive South are made land. However, the filtration plant was made in "reverse." Piling was driven and when the perimeter was completed, the whole area of over 40 acres was pumped out. Consequently, this view of the filtration plant is actually a view of the floor of the lake. It's an excellent example of the way the City of Chicago does things when it decides to do something.

The long structure at the right is Navy Pier, which houses the University of Illinois Navy Pier branch.

A rich asbestos manufacturer built a fine house just across from the minister of the local church. He and his family then proceeded to enjoy themselves in what seemed to the minister to be a very worldly fashion and not once did he see them in church on Sunday. But the minister was never known to speak ill of anyone. He only said to his wife, "Dear me, they must have great faith in their asbestos."—*Isotopics.*

The University of Illinois

EDITOR'S NOTE: The article titled "University of Illinois" was taken from the *Illinois Business Review*, a monthly publication of the Bureau of Economic and Business Research, College of Commerce, University of Illinois. This magazine has completed thirteen years of publication and it is excellent on statistical information, business briefs, local Illinois developments and other business news of Illinois. If any member of the Society is interested in receiving the *Illinois Business Review*, please drop a note so requesting to the Editor of the ILLINOIS ENGINEER.

The University of Illinois is one of the great educational institutions of the nation. It offers training in almost every field of human interest and activity, and its research laboratories have made many contributions to industry and agriculture.

On the basis of enrollment, the University ranked fifth in 1956 with a total of 22,832 full-time students and a teaching staff of 3,648. It has come a long way since March 2, 1868, when it commenced operations with a student body of 50 and a faculty of three. In all, 277,500 students have enrolled in the University during its 88 years of existence.

Growth and Development

On February 28, 1867, the University was incorporated as the Illinois Industrial University, the name being changed to the University of Illinois in 1885. The original curricula were limited to four fields and consisted of courses in the colleges of Arts, Sciences, Agriculture, and Engineering.

As the University grew in size, new fields of study were introduced. Between 1892 and 1915 the Graduate College, and the colleges of Pharmacy, Law, Medicine, Dentistry, Education, Liberal Arts and Sciences, and Commerce and Business Administration were established as parts of the University. The College of Fine and Applied Arts made its appearance in 1931, and in 1944 the College of Veterinary Medicine was founded.

Enrollment reached its peak in the fall of 1947 when the tide of returning veterans swelled attendance to an all-time high of 29,944—of whom 2,767 were in off-campus classes. Undergraduate divisions were established in 1946 at Galesburg and at Navy Pier in Chicago, but enrollment never reached expectations at the Galesburg branch and it was closed in 1949.

Educational Facilities

On the main campus of the University, located at Champaign-Urbana, are found 14 colleges and schools in addition to various institutes, bureaus, experimental stations, and State surveys. More than 1,800 liberal arts and professional courses are offered, and the Division of University Extension offers correspondence courses for college credit.

The Chicago Professional campus accommodates the University's medical, dental, and pharmacy colleges, the School of Nursing, and research and service units in the health sciences. Also located in Chicago is the Undergraduate Division at Navy Pier which offers the first two years of college work.

The University Library includes nearly 3.7 million catalogued items—more than any other state university in the nation. There are, in addition, thousands of miscellaneous items not fully catalogued but available for use.

The University of Illinois Airport is one of the finest institutional airports in the country. It covers 771 acres, has three 5,300-foot concrete runways, and is capable of handling any aircraft.

Services to the Public

The people of Illinois have invested more than \$135 million in their State University, and on the average each Illinois citizen pays a little more than a penny a day to operate it. In return, the University not only provides the training needed by a modern industrial nation, but it provides facilities for practical research as well. It is estimated that cash returns to the State on the University's discoveries total well over \$500 million a year.

Business enterprises have found the facilities and services of the University extremely useful—and profitable. The Division of University Extension conducts conferences and short courses on subjects of timely interest to businessmen. The various bureaus and institutes provide periodicals and other publications on new products, new methods of solving business problems, as well as other practical research. A few of the typical results of such research projects are the betatron, which splits atoms, is used in cancer research, and delivers a powerful X-ray capable of penetrating 20 inches of steel; the "Illiac," an amazing electronic computer; and a controlled cooling process which eliminates metal fatigue.

Of primary interest to farmers are the activities of the Agricultural Experiment Station and the Agricultural Extension Service. The Illinois Department of Agriculture has estimated that the University has raised the agricultural income of the State by over \$100 million a year through the introduction of crop rotation and fertilization. Many other contributions have also been made—soybeans, first planted in the University's greenhouses, the elimination of alfalfa failure, the test-feeding of cows, and a hog hygiene project that resulted in an increase of almost \$350 million a year in State farm incomes.

The campus of the Chicago Professional Colleges is part of the State Medical Center District. Here, the University's medical, dental, and pharmacy colleges, as well as research and service units, provide many health services to the people of Illinois.

Growth and Expansion

The University is a major investment of the State and must keep growing to meet the needs of its people. The coming deluge of students is expected to break all previous enrollment records. In September, 1956, there were 27,632 students enrolled in the University of Illi-

nois—19,223 on the Champaign-Urbana campus, 4,135 at Navy Pier, 1,689 in the Chicago Professional Colleges, and 2,585 in off-campus courses. Estimates of future enrollments predict a total of 33,400 students on the campus by the fall of 1963, and even conservative estimates allow for 50,000 by 1970.

Such an increase will exert pressure not only on classroom facilities, but on the faculty and housing situation as well. The University must also provide for continuation of its services beyond teaching—the extension and research which have given the industrialists and farmers of Illinois traceable cash returns exceeding each year all that the State has spent on the school since its founding.

**72nd ANNUAL MEETING
HOTEL SHERMAN
APRIL 11, 12, and 13**



CHICAGO WATER TOWER

The picture of the Chicago Water Tower is one of the famous landmarks in the City of Chicago. This tower went through the great fire of 1871.

When Cardinal Spellman last visited Los Angeles, a 6-year-old girl was among those who met him. He smiled at her benignly and said, "God bless you." Puzzled, she looked around, then demanded, "Who sneezed?"—*Grady R. Sutton, Pageant.*

THE WHITE HOUSE
WASHINGTON

December 27, 1956

NATIONAL ENGINEERS' WEEK

To American engineers at work everywhere in our nation and in other countries of the world, I send greetings.

During National Engineers' Week, it is an opportune time to salute the contributions made by the members of the engineering profession. At the same time, we are reminded of the impending shortages of engineers and scientists and measures being taken by the National Committee for the Development of Scientists and Engineers to meet this problem on a broad scale.

Congratulations to the National Society of Professional Engineers as it helps to alert young people to the many opportunities open in industry and research for important service to our nation and the world.

Dwight D. Eisenhower

Mr. Robert J. Rhinehart
President
National Society of Professional Engineers
209 K Street, N. W.
Washington 6, D. C.

**72nd ANNUAL MEETING
HOTEL SHERMAN
APRIL 11, 12, and 13**

Nothing makes you more tolerant of a neighbor's noisy party than being there.—*Pipe Dreams.*

The after-dinner speaker had talked for 15 minutes. "After partaking of such a meal," he continued, "I feel if I had eaten another bite, I would be unable to speak." From the far end of the table came an order to the waiter: "Give him a sandwich."—*Mountaineer.*

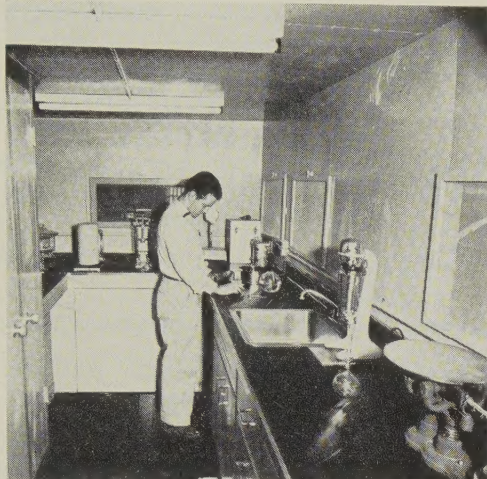
Simile: As miserable as the woman who had a fancy tonsil operation that left her talking in a whisper.

Life's necessities have increased to four—food, clothing, shelter, and endurance.—*Indianapolis Star.*

A four-year-old girl defined nursery school as "a place where they try to teach children who hit, not to hit; and children who don't hit, to hit back."—*Parents Magazine.*

Mobile Laboratory for On-the-Job Testing

A complete mobile testing laboratory was recently completed by Soiltest, Inc., Chicago manufacturer of engineering test apparatus. The laboratory on wheels, designed and built for the Bureau of Public Roads, will be used on the Bureau's overseas road planning and construction projects. The laboratory is fully equipped for standard soil and concrete tests.



The laboratory, mounted on a four-wheel drive Auto Company truck, has a van with inside dimensions of 16 ft. long by 7 ft. wide. Four engineers and testing technicians can work comfortably in the laboratory.

The mobile unit is designed to be self-sufficient. It carries its own water supply, laboratory sinks, air compressor, air conditioner, vacuum pump and similar utility equipment. Power is supplied by an electric generating set which has sufficient capacity to light the laboratory and to operate all of the test apparatus such as ovens, sieve shakers, heating plates, mixers, and the utility equipment.

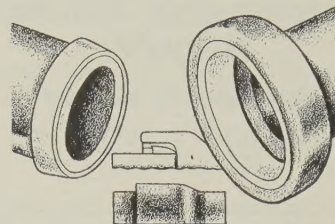
Test equipment includes a portable 200,000-pound capacity concrete testing machine for 6- by 12-inch cylinder tests. The tester is equipped with attachments for cement cube tests and for beam flexure tests.

Soil testing apparatus ranges from permeameters to a field California Bearing Ratio set and unconfined compression testing machines.

The mobile laboratory is designed for both off-road or on-the-road use. While the laboratory is in transit all test apparatus is stowed in special cushioned compartments in drawers and cabinets.

Soiltest, Inc. has manufactured many special mobile laboratories for the United States and foreign governments, for commercial testing laboratories and for contractors and consulting engineers. Soiltest mobile laboratories are in use in over 20 countries of the world in such places as Finland, Japan, Pakistan and Spain.

When your wife looks at a wreck of a farmhouse, she says: "I could do a whole lot to that." That's probably what she said to herself when she first looked at you.—*William Feather.*



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ENGINEERING OPEN HOUSE

University of Illinois, March 15 and 16, 1957

This year, as in the past, the students and faculty of the College of Engineering at the University of Illinois present "Engineering Open House." The purpose of this annual event is to provide an opportunity for the public to see, smell and touch works and accomplishments resulting from the application of engineering sciences and skills. It is of particular value to the high school student because it "shows" something of what engineering is like and indicates what kind of preparation the engineer needs in his high school and college work.

This is a golden opportunity for Professional Engineers to indicate their interest in the public welfare and in the future of engineering by volunteering to transport and guide a group of young and interested high school boys and girls through these exhibits. Although as many as 11,000 high school students visit the open house annually, much of the value is often lost because of a lack of competent guides. The exhibits are arranged on a departmental basis but behind all of these individual exhibits is the over-all spirit of engineering. The initiative, creative thinking, cooperation, and service implied by these exhibits have to be pointed out by someone who is already aware of their value. The students who plan and run the Open House do a tremendous job with the physical facilities, but it is up to the graduate Professional Engineer to carry the message and spirit of engineering.

The Illinois Society of Professional Engineers, through the cooperation of the individual members of the Campaign County Chapter, maintain an information table to answer questions about the profession of engineering.

J. RAYMOND CARROLL, P.E.

Associate Professor of Mechanical
Engineering; Faculty Member in
Charge of Open House

C. S. Monnier to Springfield

Mr. C. S. Monnier (S '39 - N '47) is returning to Springfield as District Engineer in Illinois for the U. S. Bureau of Public Roads, succeeding Mr. S. E. Farin who has been promoted to Division Engineer at San Francisco, Calif.

Mr. Monnier joined the U. S. Bureau of Public Roads organization in 1946 after release from military service. Until late in 1954 he was assigned to the Illinois District office, most of the time in charge of the Federal interests in the design and construction of expressways in the Chicago Metropolitan Area under the direction of District Engineers F. M. Johnson and S. E. Farin. For the past two years Mr. Monnier has been staff engineer of design for Mr. R. H. Harrison, Division Engineer, U. S. Bureau of Public Roads in Chicago. In this assignment he was in charge of the design of all Federal-aid highways in five midwestern states, assisting the State Highway Departments in the development of designs for complex urban projects and the new interstate system.

A Colonel in the Corps of Engineers, U. S. Army Reserve, Mr. Monnier was engaged in all types of military construction for four and one-half years during World War II as Commanding Officer of engineer combat units and division engineer for the 45th Infantry Division. He participated in the campaigns of North Africa, Sicily, Italy, Southern France and Germany. Prior to the war he spent several years with the Illinois Division of Highways working on the design and construction of roads and bridges in the northwestern part of the state.

Mr. Monnier is a native of Illinois and received his B.S. degree in Civil Engineering from the University of Illinois in 1938. He holds a Registered Professional Engineer's license in Illinois and is a member of several engineering societies.

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Date.....

To the Board of Direction of the
Illinois Society of Professional Engineers:

I hereby apply for admission to the Society as a National*.....
member. If admitted, I agree to comply with the terms of the Constitution
and the Code of Ethics of the Society, and wish to be enrolled in the

.....Chapter.

FOR OFFICE USE ONLY

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Amount Enc.

Ref. Written.....

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I. ALL APPLICANTS complete the following nine spaces:

1. Full Name.....
Last First Middle

2. Residential Address..... Phone.....
Street City State

3. Business Affiliation..... Position.....

4. Business Address..... Phone.....
Street City State

5. Registration..... Reg. Number.....
(Type of Certificate: Prof. Eng., Struct., etc. State Issued)

6. Engineering Field.....
(Civil, Electrical, Mechanical, etc.)

7. Technical Society Affiliations and Grade of Membership.....

8. Birth.....
Date Place Age Sex

9. Education.....
Years School Date of Graduation Degree Obtained

Signature.....

II. If you are NOT REGISTERED as a professional engineer or as a structural engineer in Illinois, complete the balance of the application form.

Names, addresses, and professional connections of three persons who may be consulted concerning my qualifications (preferably professional engineers who are members of this Society; action will be expedited by accompanying this application with the letters of reference):

1.
Name Title Address Member NSPE-ISPE

2.

3.

* If applicant is not eligible for this grade, strike out the word National and insert the appropriate grade.